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SUBJECT: CAMERA INFORMATION FOR MISSION 1039-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

| A. MAIN UNITS | FORWARD | AFT | STAR HOR | PORT HOR |
|--------------------------|---------|---------|------------|------------|
| FOCAL LENGTHS (MM) | 609.628 | 609.628 | FWD 55.000 | FWD 54.350 |
| | | | AFT 55.000 | AFT 54.900 |
| FILTER (WRITTEN NO.) | 23A | 21 | 25 | 25 |
| APERTURE | F3.5 | F3.5 | F8.0 | F6.3 |
| SLIT WIDTH (IN) | .225 | .175 | 1/100 | 1/100 |
| EXPOSURE (SEC) | | | | |
| FILM | 3404 | 3404 | 3404 | 3404 |
| RESOLUTION (L/MM) | 200 | 220 | N/A | N/A |
| B. S/I UNITS | | STELLAR | INDEX | |
| FOCAL LENGHT (MM) PART 1 | 84.0284 | 38.3894 | | |
| PART 2 | 83.9873 | 38.3351 | | |
| FILTER (WRITTEN NO.) | NONE | 21 | | |

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| | | |
|--------------------------|--------|--------------|
| APERTURE | F1.8 | F4.5 |
| EXPOSURE (SEC) | 2.0 | 1/500 |
| FILM | 3401 | 3400 |
| RESOLUTION (L/MM) PART 1 | | 76 |
| PART 2 | | 71 |
| UNIT NUMBER | PART 1 | D103/131/132 |
| | PART 2 | D100/125/125 |

3. LENS DISTORTION (PIN CUSHION) MM

| | | | | | | | |
|---------------|------|------|----|----|-----|------|------|
| A. MAIN UNITS | 3 | 2 | 1 | 0 | 359 | 358 | 357 |
| FWD UNIT | .002 | .0 | .0 | .0 | .0 | .001 | .003 |
| AFT UNIT | .002 | .001 | .0 | .0 | .0 | .002 | .003 |

| | | | | |
|-------------------------|------|------|------|------|
| B. HORIZON CAMERAS (MM) | FWD | | AFT | |
| | PORT | STAR | PORT | STAR |
| (RADIAL) 10 DEGREES | .010 | .030 | .020 | .020 |
| 20 DEGREES | .040 | .100 | .050 | .060 |
| (TANGENTIAL) MAX VECTOR | .025 | .040 | .030 | .030 |

4. CAMERA ANGLES

DEG. MIN.

| | | | |
|------------------------------|----------|----|-------|
| A. ANGLE BETWEEN PAN CAMERAS | | 29 | 43.02 |
| B. DEPRESSION ANGLE BETWEEN | FWD STAR | 14 | 21.2 |
| HORIZON AND PAN CAMERAS | FWD PORT | 15 | 32.5 |
| | AFT STAR | 15 | 30.2 |
| | AFT PORT | 15 | 37.6 |
| C. ANGLE BETWEEN STELLAR | PART 1 | 89 | 58.8 |
| AND INDEX CAMERAS | PART 2 | 89 | 59.2 |

5. TIMING MARKS

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FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

| REF. LEVEL | | | AMPL. LEVEL | | | PASSES |
|------------|-------|-------|-------------|-------|-------|------------|
| NO. | CPS. | GAV. | NO. | CPS. | GAV. | |
| 6 | .3518 | .0318 | 5 | .0856 | .0077 | 1 THRU 11 |
| 6 | .3518 | .0318 | 4 | .0988 | .0089 | 13 THRU 79 |

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